

SECRET

30 JUN 1970

CS-M-70-310

MEMORANDUM FOR: Chief, Support Services Division, NPIC

ATTENTION :

SUBJECT :

M-311 Equipment

1. Pursuant to conversations with [redacted] on 10 June 1970, we have reviewed U.S. Army TEMPEST test reports on the [redacted] M-311 equipment. The TEMPEST test reports stated that unmodified [redacted] M-311 equipment emanated compromising emanations well above Federal Standard 222 limits. However, tests on TEMPEST modified M-311 equipment revealed that the compromising emanations were reduced to levels below FS-222 limits.

2. Based on the above, we recommend that NPIC [redacted] M-311 equipment be TEMPEST modified for low level signaling operation as soon as practical. A [redacted] modification kit, part [redacted] has been developed which converts the M-311 send and receive to low level signaling. This kit consists of a signal line filter, a transmit interface printer circuit board, a serial receive interface printed circuit board, wiring and necessary adjustment specifications. These kits cost approximately \$275.00 to \$300.00 each and are available from:

In addition to the modification kit part number, serial numbers of individual equipments to be modified should be included when the procurement order is placed.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

Declass Review by  
NIMA/DOD

SECRET

25X1

SUBJECT:

[Redacted]

M-311 Equipment

3. If additional information on this subject is desired,  
please contact

[Redacted]

[Redacted]

Chief, Communications Security Staff, OC

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